

Figure 1

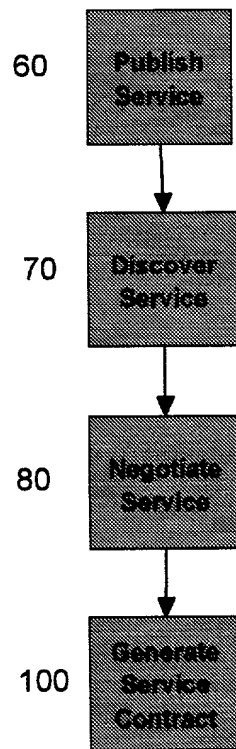


Figure 2

120	General Information	110
130	Roles and Participants	
140	Delivery Channels	
150	Transport Protocol	
160	DocExchange Protocol	
170	Negotiation Protocol (Actions) <ul style="list-style-type: none">- Bind_to_service- Start_subnegotiation- Commit_subnegotiation- Counter_offer...	
180	Sequencing rules	
190	Policy constraints	

Figure 3: Meta Contract

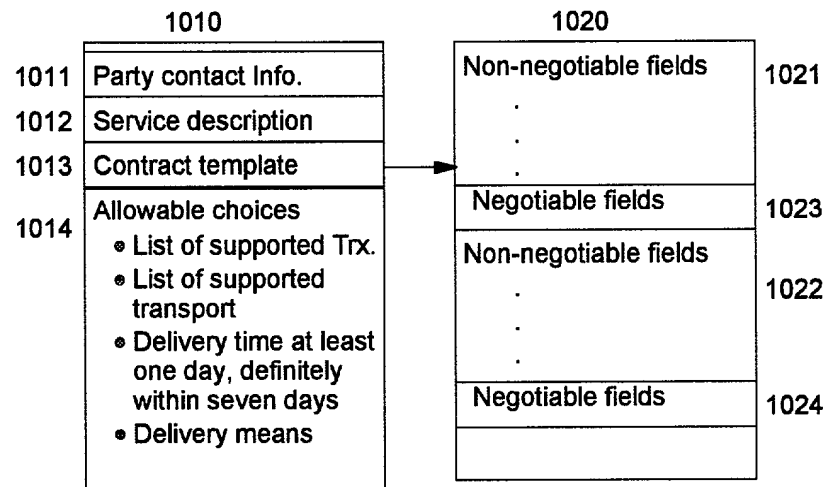
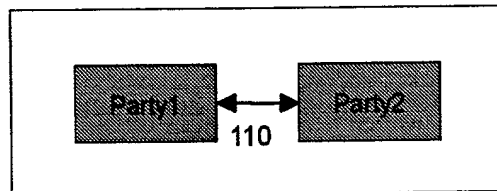
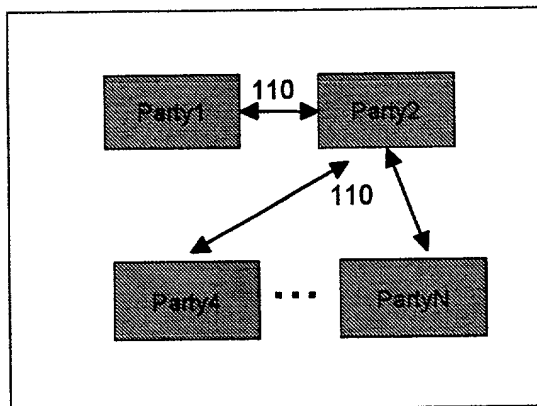


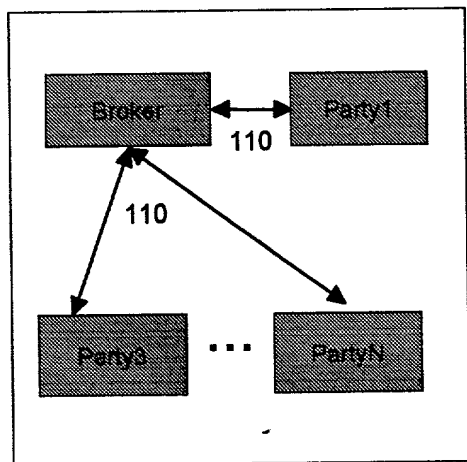
Figure 4. Party profile including Contract template



5A. Two parties direct negotiation



5B. Multi-parties direct negotiation



5C. Broker based negotiation

Figure 5

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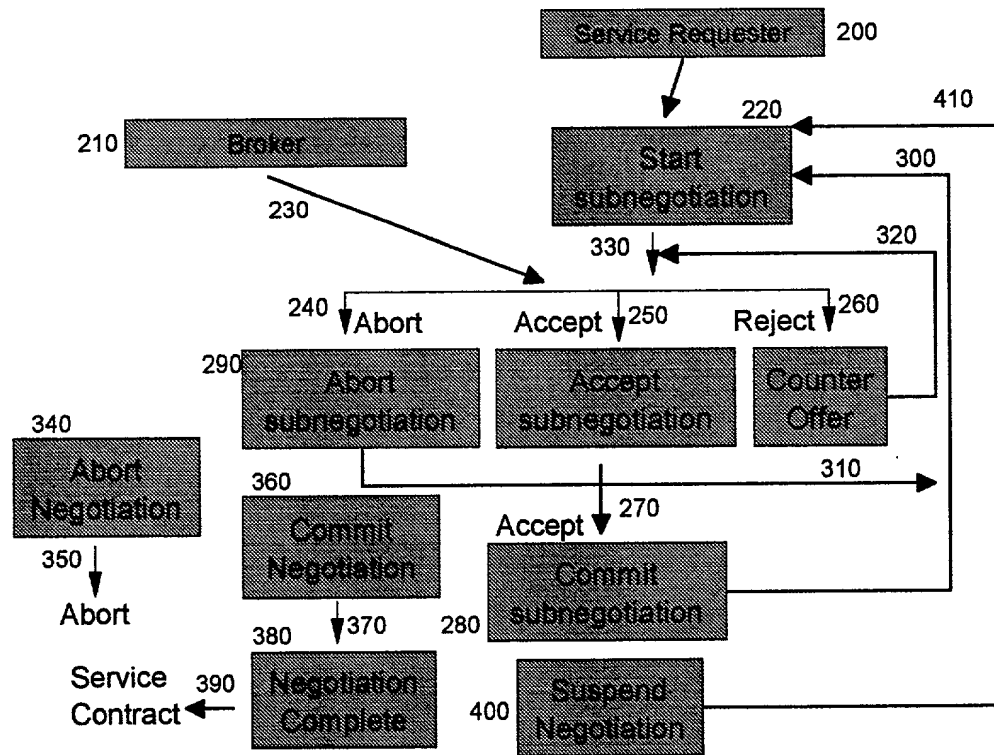


Figure 6

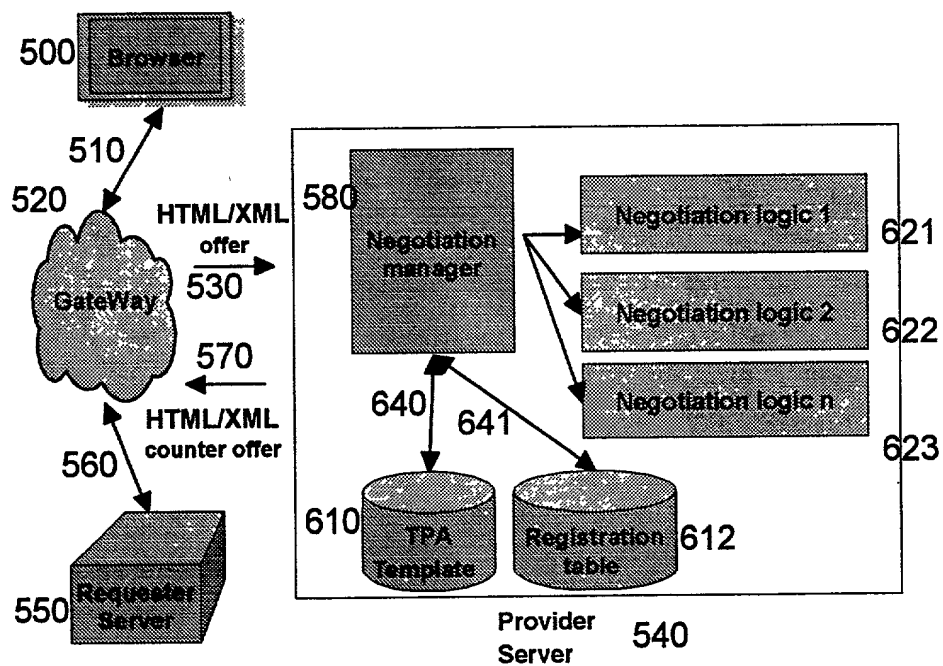


Figure 7

```

<!-- ***** -->
<!--      Offer DTD      -->
<!-- File name: Offer.dtd -->
<!-- ***** -->
<!ELEMENT Offer (Template, TPAInstance, Sender, NegotiationItem+)>
<!-- ***** -->
<!-- General information -->
<!-- ***** -->
<!ELEMENT Template (#PCDATA)>
<!ATTLIST Template TemplateId ID #REQUIRED>
<!ELEMENT TPAInstance (#PCDATA)>
<!ATTLIST TPAInstance InstanceId ID #REQUIRED>
<!ELEMENT Sender (#PCDATA) >
<!ATTLIST Sender
    PartyName CDATA #REQUIRED
    IDCodeType CDATA #REQUIRED>
<!ELEMENT NegotiationItem (Name, Type, OfferValues)>
<!ELEMENT Name (#PCDATA)>
<!ELEMENT Type (#PCDATA)>
<!ATTLIST Type DataType (String|Integer|Date|ChoiceList|Duration|Range)>
<!ELEMENT OfferValues (Value*[(StartDate, EndDate)*] (MaxNum, MinNum)*)>
<!ELEMENT Value (#PCDATA) >
<!ELEMENT StartDate (#PCDATA)>
<!ELEMENT EndDate (#PCDATA)>
<!ELEMENT MaxNum (#PCDATA)>
<!ELEMENT MinNum (#PCDATA)>
  
```

Figure 8


```
<!-- ***** -->
<!--      CounterOffer DTD      -->
<!-- File name: CounterOffer.dtd      -->
<!-- ***** -->
<!ELEMENT CounterOffer (Template, TPAInstance, Sender, NegotiationItem+)>
<!-- ***** -->
<!-- General information      -->
<!-- ***** -->
<!ELEMENT Template (#PCDATA)>
<!ATTLIST Template TemplateId ID #REQUIRED>
<!ELEMENT TPAInstance (#PCDATA)>
<!ATTLIST TPAInstance InstanceId ID #REQUIRED>
<!ELEMENT Sender (#PCDATA) >
<!ATTLIST Sender
      PartyName CDATA #REQUIRED
      IDCodeType CDATA #REQUIRED>
<!ELEMENT NegotiationItem (Name, Accept, CounterOfferValues?)>
<!ELEMENT Name (#PCDATA)>
<!ELEMENT Accept (#PCDATA)>
<!ELEMENT CounterOfferValues(Value*[(StartDate, EndDate)*] (MaxNum, MinNum)*)>
<!ELEMENT Value (#PCDATA) >
<!ELEMENT StartDate (#PCDATA)>
<!ELEMENT EndDate (#PCDATA)>
<!ELEMENT MaxNum (#PCDATA)>
<!ELEMENT MinNum (#PCDATA)>
```

Figure 9